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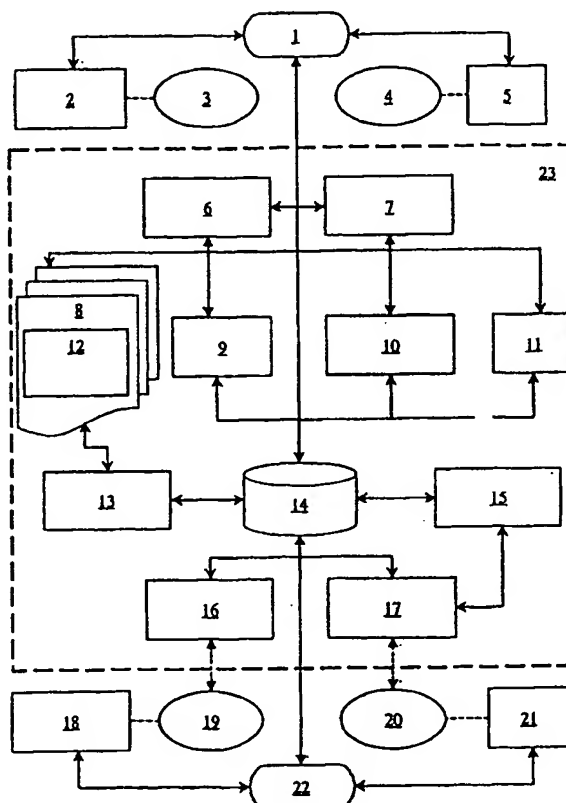
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(54) Title: APPLICATION APPARATUS AND METHOD

(57) Abstract

The present invention provides an apparatus and method for receiving and assessing an application made by an applicant. In one aspect, the apparatus includes: computing means configured or programmed to present a plurality of application forms to the applicant, to receive the forms once completed from the applicant and to assess the application; input means for the applicant to complete and return the forms to the computing means; and communication means for communicating or sending the assessment of the application to the applicant; wherein the computing means is configured or programmed to construct second and subsequent forms of the plurality of forms progressively on the basis of information provided by the applicant by means of the input means in the completed and received forms, to assess the application, and to communicate the assessment by means of the communication means.



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APPLICATION APPARATUS AND METHOD

FIELD OF THE INVENTION

The present invention relates to an apparatus and method
5 for submitting and considering applications made by one
party to one or more other parties of, for example, a
financial nature, such as applying for and receiving
approval for a financial loan. The parties will be
referred to hereinafter as the applicant on the one hand
10 and the recipient or recipients (of the application) on the
other. For example, in the context of a financial loan
application, a recipient may be a lender (such as a bank or
other financial institution). In addition, numerous
further applications of the invention are envisaged, in
15 essentially any transaction that includes the submission,
and subsequent assessment and approval or rejection, of an
application made by an applicant to a recipient.

DESCRIPTION OF THE PRIOR ART

20 Existing practice for applying for, for example, finance
(in the form of credit cards, personal loans, car loans,
mortgages, etc.) generally requires an applicant to contact
a recipient in the form of, for example, a lender, often in
person or by telephone, and complete - orally or in writing
25 - a loan application for subsequent consideration by the
lender. The lender may, in fact, be one of several
lenders, either so that the applicant can compare the costs
and features of the possible loans, or a lender refuses an
application thereby obliging the applicant to seek a loan
30 elsewhere. This is often especially desirable in cases
where a particularly large loan is sought. Alternatively,
this task of consulting multiple lenders can be performed
on behalf of the applicant by an information or finance
broker, who will compare the available options on the
35 applicant's behalf.

However, the application process and required information
differs for each lender and each lender may in any event
have non-refundable fees, so the applicant commonly and if

possible proceeds with one (for example, recommended or previously used) lender. Subsequently, the applicant maintains regular contact with the chosen lender (or broker) to complete the application via traditional
5 procedures. These include, after the completion of an application form, the compilation of documents, an interview with the lender, substantiation of submitted information, etc. These steps often form a part of a lender's standard application protocol and are required by
10 the lender to be completed before a credit decision is made, even though in many cases much of information provided by the applicant may have no immediate bearing on that decision: to minimize delays the lender may request a standard array of information or documents, which will not
15 in fact all be required in all cases.

In many situations, however, particularly for larger loans, the completion of the application can itself involve a great deal of iteration as the lender tries to understand
20 the particulars of an application and ascertain all the required information. This may require returning to the applicant several or, indeed, many times. To combat this, some lenders use more advanced underwriters to review the complex applications. For example, mortgage applications
25 from self-employed borrowers would be considered difficult, and require the attention of more skilled personnel. (As a rule of thumb, the smaller the loan size the less human involvement there is in assessing the application). However, even the most skilled underwriter will usually
30 need to ask several clarifying or supplementary questions before he or she can make a credit decision, as each application can have so many variations resulting in millions of different application profiles.

35 Further, existing paper application forms are limited in their utility and flexibility; no single form can cover all possible scenarios. This is at times addressed by retaining a stock of standard forms and selecting that or those most pertinent in each case, but such an approach

quickly reaches its limits when individual cases arise with, for example, multiple products and multiple lenders, and even multiple applicants.

- 5 If the loan is granted, regular maintenance of the loan account generally requires written or oral communication between the lender and the loan applicant (now customer).

10 Attempts have been made to automate the application process, so that less human interaction is required. Typically, however, this simply comprises the lender's provision of an application form that can be accessed, completed and submitted over a computer network (such as the internet). The application process then proceeds along
15 traditional lines; after some preliminary consideration by the lender of the electronic application form, the loan applicant is contacted and the process proceeds as described above.

- 20 US Patent No. 5,870,721 (Affinity Technology Group, Inc.) discloses a system and method for real time loan approval, which attempts to further automate this process. According to the invention of this patent, a loan applicant submits his or her application for a loan by entering the requested
25 or required information at a remote interface (preferably a kiosk). The information is transmitted to a data processing means, which may itself obtain further information from other databases, such as those of credit agencies. The application is then assessed without human
30 assistance by calculating a single underwriting score and assessing the application on the basis of that score. The result is then communicated to the applicant.

35 This system and method, however, is restricted to simple loan applications suitable for determination on the basis of an underwriting score, and (in common with other attempts at such automation) pertains to cases where the loan application is for consideration by a single lender. The addition of, for example, multiple lenders would make

this system impractical owing to the potentially enormous set of loan selection criteria and therefore prohibitively large number of questions that an applicant would have to respond to.

5

Australian Patent No. 687880 (Jeffrey A. Norris) discloses a closed loop financial transaction method and apparatus, and is related to US Patent No. 5,870,721. Again, however, there is no disclosure of how this invention could be used in a multiple-lender context, where the loan applicant would be required to supply an onerous quantity of information or to consider an prohibitive number of often irrelevant questions.

10

15

In addition, neither of these patents or other existing systems includes means by which the loan, once approved, may be managed or adjusted. For example, the customer may wish to increase repayments, which does not generally require further approval from the lender, though it may attract a charge. As mentioned above, existing systems do not allow a single application to be considered by multiple lenders, or - in such a case - for those multiple lenders to respond to the application in the knowledge of this non-exclusivity.

20

25

It is an object of the present invention, therefore, to provide an apparatus and method for receiving and assessing an application, including the ability to efficiently question the applicant to obtain the required information for one or more recipients.

30

It is a further object of the present invention to provide an apparatus and method for managing at least some aspects of an application after the initial application is lodged.

35

It is still a further object of the present invention to provide an apparatus and method for allowing multiple recipients to manage at least some aspects of an application after the initial application is lodged.

SUMMARY OF THE INVENTION

According to the invention, therefore, there is provided an apparatus for receiving and assessing an application made by an applicant, said apparatus including:

computing means configured or programmed to present a plurality of application forms to said applicant, to receive said forms once completed from said applicant and to assess said application;

input means for said applicant to complete and return said forms to said computing means; and

communication means for communicating or sending said assessment of said application to said applicant;

wherein said computing means is configured or programmed to construct second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant by means of said input means in said completed and received forms, to assess said application, and to communicate said assessment by means of said communication means.

Thus, the contents of each form is determined on the basis of the information supplied in one or more earlier forms. In this manner, the total number of forms or length of each form may be reduced or minimized, as subsequent forms can omit questions rendered redundant by earlier forms.

It should also be noted that the applicant may, in some embodiments, be presented with one of the plurality of forms more than once (possibly at his or her request), but that that form may have been changed between such presentations according to information provided after the earlier presentation of that form. From another perspective in such a case, therefore, the form presented more than once in this manner, but altered between presentations, is in fact a different form when next presented. For example, the forms might be presented to the applicant as a number of tabbed forms on a computer screen, so that the applicant is free to commence with any

of the forms (by selected a tab and bringing the corresponding form into the foreground), but later returning to an already viewed form.

5 Further, although second and subsequent forms are constructed progressively on the basis of information provided by said applicant, the term "construct" can include determining that an existing precedent form should be presented to the applicant without alteration.

10 Preferably said assessment may indicate approval or rejection of said application. In addition, said assessment may alternatively indicate that further information or human involvement is required before the
15 application can be approved or rejected.

Thus, the assessment may simply indicate approval or rejection (where insufficient information would lead to automatic rejection), or a third option may be included
20 where additional information or human involvement is required. It should also be noted that in the present application the term 'approval' includes provisional approval or prequalification, i.e. approval contingent upon the subsequent substantiation of some or all of the
25 information provided during the application process. Also, the term 'applicant' can refer to either the person actually applying to the recipient or recipients of application, or an intermediary such as a broker.

30 The plurality of forms may be one of a plurality of groups of pluralities of forms.

Thus, the required information may be divided into groups of related information, and - within each group - second
35 and subsequent forms determined from one of more earlier form within that group or, in some applications, earlier groups.

The computing means is configured or programmed to assess

said application according to information received in any one or more of said forms.

Thus, the application procedure may be truncated as soon as the information received indicates that the application should be approved or rejected, even though the applicant has not as yet been asked to respond to remaining questions based on the total of the application recipient's selection criteria. For example, a loan application may be rejected after the applicant has completed only one form if the information returned in that form indicates that the requested loan is in excess of the absolute lending limits of the application recipient (or lender).

The apparatus may include a display means for presenting said forms. Preferably said computing means is operable to present said forms on a remote display means. The remote display means may be a computer connected to said apparatus by means of a computer network. Preferably said computer network is the internet, the world wide web, a commercial on-line service, an interactive broadcast, or other electronic on-line means.

The input means may be, for example, any suitable computer or computer input means, such as a computer keyboard, computer mouse or electronic pen, connected to said computing means. Preferably said input means is a computer connected to said apparatus by means of a computer network, such as the internet, the world wide web, a commercial on-line service, an interactive broadcast, or other electronic on-line means, including a computer keyboard and mouse connected to such a computer.

Preferably said communication means is an electronic information transfer system, such as electronic mail or a file transfer system. Preferably said electronic mail system is connected to or operable to access a computer network such as the internet.

Preferably said apparatus includes communication link means for obtaining additional information, from external databases or other sources of information, for consideration in assessing said application. The
5 communication means may be operable as the communication link means.

Thus, the apparatus may obtain, for example, a credit report on the applicant for consideration as a part of the
10 application assessment. Both the communication means and the communication link means may be the internet of a portion thereof.

Preferably said apparatus is configured or programmed to
15 present one or more additional forms when information previously returned by said applicant contains one or more defects (owing to being incomplete, self-contradictory, contradictory with other information provided by the applicant, meaningless, etc.). Said additional forms may
20 simply repeat previously presented forms, or may be new forms.

Preferably said apparatus is operable by said applicant to amend information previously returned by said applicant.
25 This may occur either before or after the applicant has been assessed and, if after, the apparatus may re-assess the application.

Preferably said apparatus is configured or programmed to
30 ignore certain of said defects on the basis of preset tolerances for decision certainty, typically determined on the basis of human judgement or statistical analysis. Alternatively said apparatus may be configured or programmed not to request certain information deemed non-
35 critical in some or all circumstances.

Preferably said apparatus includes or can access application approval criteria of a plurality of application recipients, is configured or programmed to present

sufficient of said forms to assess said application according to approval criteria of said each of said plurality of application recipients, and is configured or programmed to assess said application against the approval
5 criteria of each of said recipients, and thereby form a respective separate assessment for each of said plurality of recipients.

The apparatus may be programmed or configured to assess
10 said application according to multiple separate approval criteria for each of said one or more application recipients.

Thus, in the case of a loan application, the applicant can
15 receive an assessment of the application from several lenders, or for more than one financial products from each of one or more lenders and select a lender/product combination. Alternatively the applicant can amend one or more of the forms to, in effect, request different terms
20 and thereby alter the number of assessments.

Preferably said apparatus is configured or programmed to communicate one or more of said assessments to one or more of said plurality of recipients. More preferably, said
25 apparatus is configured or programmed to communicate all of said assessments to all of those of said plurality of recipients whose respective assessment indicates approval.

Preferably said apparatus is operable by each of said
30 plurality of recipients to adjust said respective approval criteria of each recipient in order to bid for selection by said applicant.

Thus, the applicant can accept the best or most favourable
35 recipient for whom approval is indicated, or choose to be "auctioned" to the recipient with the best offer that correspond with the preferences of the applicant.

Preferably, if said application is approved, said apparatus

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is operable by said applicant to adjust or request the adjustment of one or more parameters of said application.

5 This allows the applicant to vary some of the details of the application after approval. In financial applications, this might include size or frequency of repayments.

10 Preferably said apparatus is operable by said applicant to display or transmit to said applicant some or all of said information and/or the status of said application.

15 Thus, the apparatus allows the applicant (or, later, customer) to inspect and/or manage some or all aspects of their application before and/or after approval (e.g. for a loan application: the issue of statements, additional redraws, additional repayments, changing bank account details, etc).

20 Preferably said apparatus includes means for requesting assistance, or is operable to request assistance, and is operable to communicate details of said application to an assistant so that said assistant can advise said applicant.

25 Preferably said assistant can view one or more of said forms during completion by said applicant.

30 Thus, if the applicant is unable to understand a part of one of the forms, he or she can request assistance, the assistant can view the form in its instant state of completion, and advise the applicant as necessary.

The present invention also provides a method for receiving and assessing an application made by an applicant to one or more recipients, including:

35 presenting a plurality of application forms to said applicant;

 receiving said forms once completed from said applicant;

 assessing said application; and

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communicating or sending said assessment of said application to said applicant;

wherein said method includes constructing second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant in said completed and received forms.

Preferably said method includes collecting application approval criteria for said one or more recipients, determining the dependency if any of each of said criteria on each other, promoting in said sequence forms requesting information whose content renders a high, or the greatest possible, number of later questions redundant, and omitting said redundant questions from subsequent forms.

Thus, the total number of forms is reduced or minimized, by progressively reducing the 'total degrees of freedom' in the querying process.

Preferably the method includes presenting, in earlier forms, any questions where the response to each of said questions case may lead to the immediate rejection of the application.

For example, some recipients may not approve an application made by a minor, or - in the example of a loan application - outside certain lending limits. One or more forms requesting such information may be presented to the applicant early in the sequence of forms so that the applicant completes as few forms as possible; it would be a waste of the applicant's time to complete 10 or more forms, then to be asked for age or date of birth and only then be told that applications from minors will be rejected irrespective of all other considerations.

Preferably said method includes subsequently adjusting said sequence. For example, this may be done to improve clarity or ease of use, to reflect applicant preferences, or to achieve other objectives.

Thus, the otherwise ideal sequence may be adjusted so that the sequence makes for sense to the applicant, even at the expense of some efficiency.

5

The invention still further provides an apparatus for receiving and assessing an application made by an applicant, said apparatus including:

10 computing means configured or programmed to receive application information and to assess said application; wherein said apparatus includes, or can access, application approval criteria of a plurality of application recipients, and said computing means is configured or programmed to assess said application according to said
15 approval criteria of said each of said plurality of application recipients, whereby said apparatus can thereby form a respective separate assessment for each of said plurality of recipients.

20 Preferably said apparatus includes:

 input means for said applicant to input said application to said computing means; and
 communication means for communicating or sending said assessments of said application to said applicant.

25

Preferably said computing means is configured or programmed to present a plurality of application forms to said applicant, and to receive said forms once completed from said applicant and to assess said application;

30

 wherein said computing means is configured or programmed to construct second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant by means of said input means in said completed and received forms, and to
35 communicate said assessments by means of said communication means.

The invention still further provides a method for receiving and assessing an application made by an applicant,

including:

receiving application information from said applicant;
assessing said application according to approval
criteria of each of a plurality of application recipients;

5 and

forming a respective separate assessment for each of
said plurality of recipients.

10 Preferably said method includes communicating or sending
said assessments of said application to said applicant.

The present invention still further provides a method of
processing an application made by an applicant, including:

15 receiving application information from said applicant;
providing said information to a plurality of
application recipients;

receiving one or more bids for said application from
one or more of said recipients;

20 forwarding said one or more bids to said applicant for
selection or rejection of each of said one or more bids.

Preferably said method includes forming a respective
separate assessment of said application for each of said
plurality of recipients.

25

Preferably said method includes adjusting said respective
bids according to said selection or rejections of
adjustment of said information.

30 Thus, the applicant be "auctioned" to the recipient with
the best offer that correspond with the preferences of the
applicant (expressed in the application information).

35 According to the invention there is also provided an
apparatus for processing an application made by an
applicant, said apparatus including:

computing means configured or programmed to receive
application information from said applicant, for directing
said information to a plurality of application recipients,

for receiving one or more bids for said application from one or more of said recipients, and for forwarding said one or more bids to said applicant for selection or rejection of each of said one or more bids.

5

BRIEF DESCRIPTION OF THE FIGURES

In order that the invention may be more clearly ascertained, a preferred embodiment will now be described, by way of example, with reference to the accompanying drawing in which:

10

Figure 1 is a flow chart showing the steps and components of a loan application system according to a preferred embodiment of the present invention;

15 Figures 2a is a view of electronic Form No. 1 according to the system of figure 1;

Figures 2b is a view of electronic Form No. 2 according to the system of figure 1;

Figures 2c is a view of electronic Form No. 3 according to the system of figure 1;

20 Figures 2d is a view of electronic Form No. 4 according to the system of figure 1;

Figures 2e is a view of electronic Form No. 5 according to the system of figure 1;

25 Figures 2f is a view of electronic Form No. 6 according to the system of figure 1;

Figures 2g is a view of electronic Form No. 7 according to the system of figure 1; and

Figures 2h is a view of electronic Form No. 8 according to the system of figure 1.

30

DESCRIPTION OF A PREFERRED EMBODIMENT

The following preferred embodiments of the present invention are in the area of finance and specifically loan applications, though as described above the invention is not limited to such applications.

35

Overview of the Preferred Embodiment

According to the preferred embodiment of the present

invention there is provided a loan application, approval and management system that can be accessed over the internet, and may thus be described as having an open architecture, and which presents the applicant with a series of customised electronic application forms which captures the required information for automated assessment of the application based on the criteria of one or more lenders and, for each lender, one or more financial products. Once the applicant becomes a customer after approval (and verification, if any, of the information supplied during the application procedure), which may involve third party relationships (e.g. with solicitors, valuers, credit repositories, etc.), the preferred embodiment allows the customer to manage the on-going business relationship remotely, without human involvement.

Summary of the Preferred Embodiment

The system includes the following features:

- Open architecture: the system can be accessed by applicants/customers or third parties without using any proprietary front-end hardware or equipment, such as dedicated kiosks, but rather is based on an open architecture principle utilizing the internet.
- Superset Decision Method: a method based on initially gathering all loan or financial product criteria for all participating lenders, and systematically reducing the mathematical 'degrees of freedom' as the applicant progresses through the application procedure.
- Dynamic Electronic Forms: the applicant is presented with a series of forms composed or constructed progressively and intelligently, based on the information provided by the applicant, rather than merely presenting the applicant either with a single standard form or set of forms, or with a form or set of forms merely selected from an existing set of forms.
- Real-Time Assistance: applicants can engage in a real-time messaging dialogue with an assistant, who can view the

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form presently being completed by the applicant.

- Automated Underwriting for Multiple Products/Lenders: the system simultaneously can evaluate an application according to the approval criteria of multiple products and multiple lenders.
- Remote Application Management: the system allows users to advance, track and be informed of the progress of their application remotely and in real-time.
- Self-servicing: once an applicant a customer, the invention allows the applicant to electronically manage their loan account without any human involvement.
- Intermediary System: the system can also be accessed by finance brokers, financial planners and salespeople, for example, who lodge applications on behalf of their clients.
- Loan Exchange: the system also acts as an 'auction' system that allows various lenders to identify desired applications and make bids to such prospective customers, with the winning bidder getting the business.

Detailed Description of the Preferred Embodiment

The preferred embodiment will be described by reference to the following Example, which relates to a home mortgage. Mortgages, owing to the large loan size (as opposed to, for example, credit cards or small personal loans) require a great deal of verification (e.g. collateral security, borrowing entities, sources of income, employment tests) and are considered amongst the most complex personal finance transactions.

The applicant's details to be used in the Example are as follows:

Description	Profile	Total Amount	Monthly Payment
Name	• Mr. Pat Hall born on 1/1/1950	-	-
Loan Purpose	• Refinance existing mortgages	-	-

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	• Consolidate other outstanding debts		
Owned Properties	• 2 residential properties (assume identical)	\$350,000	-
	• 1 warehouse (industrial zoning)	\$250,000	-
Current Mortgages	• 1 1st mortgage over 2 residential properties	\$320,000	\$1,750
Current other debts	• Credit Card	\$5,000	\$150
	• Personal Loan	\$5,000	\$200
	• Auto Loan	\$7,500	\$500
Income Sources	• Full-Time Sales Manager (per annum)	\$50,000	-
	• Fixed Draw from Partnership (per annum)	\$5,000	-
	• 25% of partnership profits	\$10,000	-
	• Total non-cash expenses of partnership*	\$5,000	-

* Non-cash expenses need to be added back to profits to derive cash flow provided by partnership.

- There are 3 available lenders, A, B and C with the following credit criteria, income calculation methodology and product description for residential mortgages:

Category	Description	Lender A	Lender B	Lender C
Credit Criteria	Loan Amount	> \$40,000 < \$500,000	> \$50,000 < \$250,000	> \$10,000 < \$400,000
	Security	• 1st mortgage over: -residential	• 1st mortgage over: -residential -rural	• 1st mortgage over: -residential
	Net Surplus*	-	• \$500 per month	• Must not be negative
	Debt Service	• Maximum of 35%	-	-

	Ratio*			
	Refinance Limits	• Maximum of 3 other debts	• Maximum of 7 other debts	• No maximum
	Identity	• Applicant name • Legal age	• Applicant name • Legal age	• Applicant name • Legal age
Methodology	Income Calculation	• 100% for PAYE wages • Any self-employment income subject to following: - 80% of profits for sole proprietorship - 75% of share of partnership profits - 50% of share of company profits	• 100% for PAYE wages • Any self-employment income subject to following: - 90% of cash flow for sole proprietorship - 80% of share of partnership cash flow - 70% of share of company cash flow	• 100% for PAYE wages • Self-employment profits from any source will receive 80% credit
Product Description	Term	• Up to 25 years	• Up to 25 years	• Up to 20 years
	Interest Offset	• Yes	• Yes	• No
	Max LVR**	• 90% of valuation	• 95% of valuation	• 90% of valuation

* These are measures for serviceability of a loan; Net Surplus represents the discretionary income remaining after all loan commitments and an estimate of living expenses (corresponding to a lender provided formulae) are met; Debt

5. Service Ratio is calculated as the total monthly debt

payments divided by total gross monthly income.

** Max LVR is the maximum loan-to-value ratio allowed for a mortgage; for example, if the applicant qualifies based on serviceability, the maximum loan amount on a \$200,000

5 property will be \$180,000 if the Max LVR is 90%.

In the following, the system is described using the above scenario where appropriate.

10 • Open Architecture

Figure 1 is a flow chart showing the components of the system 23 of the preferred embodiment, in relation to elements external to the system 23 with which the system interacts. Within the system 23, various communication links are indicated by solid-line arrows; the system 23 advantageously utilizes a number of existing communication links, such as the internet (indicated by dashed-line arrows).

20 According to the preferred embodiment, all access to the system 23 is via one of computers 3, 4, 19 or 20 depending on the type or class of user. Computers 3, 4, 19 and 20 are operable to communicate with the system 23 over the internet (possibly including by means of a modem and telephone connection), and the system 23 is adapted to be accessed by means of a web browser. The system 23 presents information in hypertext markup language or the like. Alternatively, computers 3, 4, 19 and 20 may communicate with the system 23 by any suitable alternative, including cable modems, ADSL, frame relay, ISDN and any other high bandwidth data transfer means including satellite and T1, T2 and T3 telecommunications platforms.

35 The four classes of users referred to above comprise Direct Applicants 5, Intermediaries (e.g., brokers, financial planners, salespeople) 2, one or more Lenders 21 and any required Third Parties Service Providers 18 depending on the finance product. A user accessing the system 23 may be

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prompted to provide identification and a password.

- A Direct Applicant 5 can access or be prompted to access the Direct Applicant Control Module 7, which acts as a menu to a range of activities relevant to the Direct Applicant 5. These activities include but are not limited to:
- Making product comparisons;
 - Obtaining product/lender information;
 - Applying on-line;
 - 10 • Making payments;
 - Tracking the status of an application;
 - Contacting and communicating with an assistant; and
 - Managing the loan account.

- 15 Some of these activities are described in further detail below.

- An Intermediary 2 can access or be prompted to access the Intermediary Control Module 6, which acts as a menu to a range of activities relevant to the Intermediary 2. The Intermediary Control Module 6 illustrated in figure 1 represents multiple control modules depending on the type of Intermediary 2. For example, the Intermediary 2 could be a finance broker, a real estate agent, a financial planner, a salesperson, or a builder. A unique Intermediary Control Module 6 would exist for each type of Intermediary 2. The activities available to the Intermediary in addition to those available to Direct Applicants include but are not limited to:
- 30 • Accessing market/industry information;
 - Joining a discussion forum relevant to the Intermediary 2 community;
 - Viewing all applications in progress;
 - Tools for assessing the performance of the Intermediary 2 organisation; and
 - 35 • Managing commission income.

Some of these activities may involve accessing another module, described further below.

- 21 -

A Third Party Service Provider 18 can access or be prompted to access the Third Party Control Module 16, which acts as a menu to a range of activities relevant to the Third Party Service Provider 18. The Third Party Control Module 16 illustrated in the figure represents multiple control modules depending on the type of Third Party Service Provider 18. For example, the Third Party Service Provider 18 could be a property valuer, a credit history repository, a title search company an insurer or a mercantile agency. A unique Third Party Control Module 16 would exist for each type of Third Party Service Provider 18. Such activities could include but are not limited to:

- Posting valuation reports;
- Transmitting credit reports;
- Transmitting title searches;
- Nominating accounts;
- Issuing insurance policies; or
- Raising invoices.

Some of these activities may involve accessing another module, described further below.

A Lender 21 can access or be prompted to access the Lender Control Module 17; this module 17 acts as a menu to a range of activities relevant to the Lender 21. These activities include but are not limited to:

- Updating product information;
- Changing lending criteria;
- Viewing approved applications;
- Making fund disbursements;
- Tracking the status of applications;
- Viewing auction results; or
- Submitting auction bids.

Some of these activities may involve accessing another module, also described further below.

In the later stages of the loan application, such as during verification of the information provided applicant or the signing of contracts, the system 23 may employ known techniques (indicated by Traditional Delivery 1 and 22) as

a supplementary means of communications with users. Also, in some cases, the documentation may be quite abundant and electronic data transfer may take too long or require too much memory and therefore is rendered impractical.

5 Traditional Delivery 1 and 22 may include the use of a postal or courier service, or facsimile. Traditional Delivery 1 and 22 is used instead of, for example, electronic mail (between computers 3, 4, 19 or 20 and the system 23) when it is legally necessary, preferred, more
10 expedient or more practical.

The open architecture of the system 23 means anyone with, for example, a personal computer and internet access can use the system.

15

- Superset Decision Method

The system can automatically underwrite a plurality of financial products for multiple separate lenders. It does
20 this by employing a method referred to as the Superset Decision Method 12. This procedure creates a line of questioning to capture all of the relevant information required to underwrite any loan application. The Superset Decision Method 12:

- 25 1. Collects the superset of decision criteria for all participating lenders and products;
2. Identifies data requirements of decision criteria;
3. Ranks criteria according to level of dependency (i.e. data relationships between criteria);
- 30 4. Optimises the questioning sequence to reduce or minimize the total number of questions asked;
5. Introduces new data requirements and data transformations to reduce uncertainty and open-ended questions;
- 35 6. Adjusts optimal sequence for consumer preferences and other objectives; and
7. Sets tolerance for decision certainty based on human judgement or statistical analysis.

Once this process is completed, it is implemented in Dynamic Electronic Forms 8 (i.e. the required information is requested in forms presented sequentially to the applicant, and designed progressively as information is provided by the applicant), to underwrite a variety of products for multiple lenders within a specified tolerance for error. An example of the Superset Decision Method 12 follows using the case study already presented.

10 Example of Superset Decision Method

As discussed above, paper application forms are inadequate for automatic underwriting. In the Example of a single applicant applying for a mortgage, a paper application form cannot anticipate all the possible scenarios, such as the three properties. Also, the paper application form will in many cases not allow all of the required income information to be captured. This becomes particularly apparent when the application is to be assessed against the criteria of multiple lenders, each with multiple products, and where some or these products are complex, such as residential mortgages.

The principle of the Superset Decision Method 12 is that it begins by all possible, relevant questions and then determines the optimal sequence in which to ask the questions. Equally important, the Method 12 intelligently sequences the questions in a managed approach. Each step of the Superset Decision Method 12 is illustrated below.

Step 1. The superset of decision criteria are collected. A superset is statistically defined as the union or universe of all decision criteria for all lenders for a particular product (which, in the above Example, is a mortgage product).

In the Example, it should be noted that Lender C does not have a Net Surplus criterion. However, this is required by Lender A and B. Therefore, it must be included in the

superset of decision criteria. In the Example, therefore, the superset of decision criteria includes the following: Loan Amount, Security, Net Surplus, Debt Service Ratio and Refinance Limits.

5

The boundary of the superset defines the outer range limits of all qualifying responses for the superset of decision criteria. For Example, the boundary of 'loan amount' in the Example would be "greater than \$10,000 and less than \$500,000" as this represents the limits for Lender A and Lender C. These boundary values are used in other steps. The superset of decision criteria and its boundary for the Example is summarised in the table below.

10

Superset of Decision Criteria	Boundary
Loan Amount	• Between \$10,000 & \$500,000
Security	• 1st mortgage over: - Residential - Rural
Net Surplus	• Not applicable*
Debt Service Ratio	• Maximum of 35%
Refinance Limits	• No boundary
Identity	• Must be legal age

15

* As Net Surplus is calculated differently by different lenders, there is no uniform boundary as this would not be a like to like comparison; theoretically, however, a boundary can be defined by taking the minimum of the two methodologies of Lender B and Lender C.

20

Step 2. The data requirements of the decision criteria are identified, i.e. the data that should be requested from the applicant in order to ascertain the needed information to determine a decision criterion. For example, to calculate the Net Surplus and Debt Service Ratio, information on income will be required. A chart summarising the data requirements of the decision criteria in the Example is shown below. To illustrate that the Example is extremely simplified, some other data requirements that would be applicable in the practical application of the system 23 is

25

30

displayed in parentheses.

Decision Criteria	Data requirements
Loan Amount	• Desired amount (assets, unpaid defaults, unpaid judgements, pending purchase contracts, unpaid tax liabilities, rates)
Security	• Zoning, value, address (title type, special conditions, size of property, use of property, anticipated sale time, lending cautions, gearing ratio)
Net Surplus	• Income, type of income, living expenses, interest*, depreciation*, (maintenance, school fees, social security, dependants, marital status)
Debt Service Ratio	• Income, type of income, current liabilities, interest*, depreciation*, (duration, previous employment, allowances, time in occupation)
Refinance Limits	• Current liabilities, monthly payments, (type of liability, store cards vs credit cards, current arrears, current arrangements, use of facility)
Identity	• Name, DOB, (current address, previous address, current accommodation, previous accommodation, closest relative, phone)

* Interest and depreciation is necessary as these are non-cash expenses and therefore, must be added back to net profits to derive cash flow.

Step 3. The criteria are ranked according to level of dependency (data requirements), i.e. the decision criteria are arranged by the amount of required information. As a guide, this should correspond to the number of data requirements. For the Example, this is summarised in the chart below:

Decision Criteria	Level of Dependency	Data Requirements
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Loan Amount	Low	• Desired amount
Identity	Low	• Name • DOB
Refinance Limits	Medium	• For each liability: - Value - Monthly payment
Security	Medium	• Number of securities • Zoning of property • Value • Address
Debt Service Ratio	High	• Sources of income • Type of income • Amount of income • Amount of interest • Amount of depreciation
Net Surplus	High	• Sources of income • Type of income • Amount of income • Amount of interest • Amount of depreciation • Marital status* • Number of dependents*

* Net Surplus is the calculation of disposable income after loan commitments and living expenses are deducted; living expenses are calculated based on the anticipated amount a certain family structure would need to spend; the family structure is usually based on the income of the household and the number of adults and dependents.

Step 4. The sequence is optimised to reduce or minimize the number of questions asked. The goal is to quickly come to a decision on an application. This involves asking for information in a sequence such that the number of questions and therefore the number of outcomes is reduced.

Taking into consideration the 'boundaries' of each decision criterion of the Example, it is preferable to request information on the desired loan amount first before requesting income details as, if the desired loan amount

- exceeds the maximum limit of any lender, there is no need to proceed with the questioning. Generally, to arrange the questions so that a reduced or minimum number of responses are requested, the questions are sequenced in order of lowest to highest dependencies. In the Example, this process yields the following line of questioning:
- What is your desired loan amount?
 - What is your name?
 - What is your date of birth (DOB)?
 - What are you current liabilities?
 - What is address of security for each mortgage?
 - What is balance and monthly payment of each liability?
 - What is the address of all properties that you currently own?
 - What is value of all properties owned?
 - What is the zoning of all properties owned?
 - What are all of your sources of income?
 - What is the income from each source of income?
 - What is your household structure?
 - How many dependants do you have?

Sometimes, however, it may be desired to then adjust the number of questions in order to collect further information for marketing purposes. For Example, by disqualifying an applicant owing to a desired loan amount in excess of the maximum of any lender would preclude the collection of any demographic data on prospective customers. This will be explained further in step 6.

Step 5. New data requirements and data transformations are introduced to reduce uncertainty and open-ended questions. In certain circumstances, asking an additional question will eliminate uncertainties, reduce additional questions that need to be asked and remove any open-ended questions. For example, questions such as "What are your current liabilities?" are indeterminate and therefore open-ended. This is a common drawback of paper application forms which, for practical reasons, over-emphasize concision and therefore often present the applicant with abstruse

questions or inadequate for responses. Therefore, asking the applicant to specify how many liabilities he or she has prior to supplying the liability-specific information will eliminate this uncertainty. Other questions would include:

- 5 • How many properties do you own?
 • How many sources of income do you have?
 • What is the nature of the first (second, third, etc.)
 source of income?

10 Sometimes, these newly introduced questions can lead to
 further dependencies that can be utilised. In this case,
 it may be prudent to repeat Steps 2 and 3. For example,
 the number of properties the applicant owns has a
 relationship with the zoning of owned properties. If the
15 applicant indicated that only 1 property was owned and the
 zoning was not an acceptable zoning within the boundary of
 the superset, then the application could be declined by
 deduction. The current sequence of questions, however, is
 not as efficient as the zoning question is not asked until
20 the latter half of the process. Therefore, because of the
 dependency of the number of properties and the zoning of
 the property, the question related to property zoning can
 be promoted in priority.

25 Criteria transformations refer to an introduction of new
 data derived from existing data. These transformations can
 greatly optimise the line of questioning. In this
 simplified Example, it will be noticed that given the max
 LVR constraints of Lenders A, B and C and the value of all
30 residential properties, the applicant will not be able to
 refinance all of his other liabilities. The applicant must
 decide what to do, and which loans should be refinanced.
 The amount outstanding and monthly payment for each
 liability can be transformed into new data called "Cost per
35 \$1 Outstanding" that is calculated by dividing the monthly
 payment by outstanding amount. If the user does not
 recognise this contradiction in the application, the system
 can default to refinancing the most expensive liability as
 defined by the newly transformed criteria with the highest

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value as this would represent the most expensive liability.

- Step 6. The optimal sequence for consumer preferences and other objectives are adjusted. For example, the current sequence of questions asks about household structure last. This would seem an awkward point in the process to ask such information after very detailed information about the applicant's financial statement has been ascertained. Therefore, it would be more appropriate to ask this question when gathering identity details from the applicant. This step is very subjective and is determined progressively based on feedback provided by users of the system 23. After taking into consideration new data requirements and adjusting the sequence for consumer preferences, the new line of questioning in the Example is:
- What is your desired loan amount?
 - How many properties do you currently own?
 - What is zoning of all properties owned?
 - What is your name?
 - What is your date of birth (DOB)?
 - What is your household structure?
 - How many dependants do you have?
 - What is address, zoning and value for each of the following properties?
 - How many liabilities do you have?
 - Of these liabilities, how many are mortgages?
 - What is the balance, monthly payment and property related to each mortgage?
 - What is the balance and monthly payment of other liabilities?
 - How many sources of income do you have?
 - What is nature of first [second, third, etc] source of income?
 - What is amount of income and type of income from each source of income?

It may be noted that there are more questions as a result of steps 5 and 6 compared to the questions at the end of step 4. However, these new data requirements and

transformations are necessary as the responses to the questions at the end of step 4 would not enable the automatic underwriting of the application. For example, in the Example the applicant would not know what to enter when asked about income as he derives his income from a fixed draw, partnership profits and PAYE wages. One possibility is that he should enter the total of all amounts, but this would be incorrect as different lenders use different income calculation methodologies for self-employment income. Also, different tax rates to each source of income.

Step 7. The tolerance for decision certainty based on human judgement or statistical analysis is set. That is, some information may not be requested because the probability of such information making an impact on the outcome of the assessment is determined to be minimal or acceptable. In the Example above, it may be decided that number of dependants will always be assumed to be zero if it is a single applicant and two in the case of married applicants.

Although not entirely accurate, this degree of uncertainty imply a risk that a lender is prepared to accept. Thus, this step in the process involves identifying the data that can be included or removed, or ignored if the applicant fails to provide it or does so defectively, depending on the desired tolerance of the system owner. In the Example, it is desired to have 100% certainty, so none of the requested data is removed.

Summarised in the table below are possible responses to each of the questions in the Example:

Question	Response
What is your desired loan amount?	\$315,000
How many properties do you currently own?	3

What is zoning of all properties owned?	Residential and industrial
What is your name?	Pat Hall
What is your date of birth (DOB)?	1/1/50
What is your household structure?	Single
How many dependants do you have?	0
What is address, zoning and value for each of the following properties?	A. 1 Apple Street; Residential, \$175,000 B. 2 Apple Street; Residential, \$175,000 C. 5 Industry Lane; Industrial, \$250,000
How many liabilities do you have?	4
Of these liabilities, how many are mortgages?	1
What is the balance, monthly payment and property related to each mortgage?	\$320,000; \$1,750; A&B
What is balance and monthly payment of other liabilities?	Credit Card: \$5,000; \$150pm Personal Loan: \$5,000; \$200pm Auto Loan: \$7,500; \$500pm
How many sources of income do you have?	2
What is nature of first source of income?	Full-Time
What is amount of income and type of income from first source of income?	\$50,000; PAYE Wages
What is nature of second source of income?	Partnership
How much do you receive in fixed draw?	\$5,000
What is your share of the partnership?	25%

What is amount representing your share of partnership profits?	\$10,000
What are the total non-cash expenses of partnership	\$5,000

- It should be noted that the responses to the questions with the lowest dependency (i.e., loan amount, zoning, DOB) are acceptable. If they were not, there would have been no need to proceed with the remaining questions. More importantly, all the relevant information required to automatically underwrite the application (as will be discussed later) has been collected.
- 10 The above Example is extremely simplified to illustrate the Superset Decision Method. A different sequence would be followed according to loan purpose (e.g. home improvements, home purchase, cash advance). The system can accommodate considerably more complex examples. Complexities that might arise in a more realistic situation include:
- What if there were two borrowers living in a de facto arrangement?
 - What if there were three borrowers; one married couple and one company entity?
 - 20 • What if the borrower was a family trust with 4 beneficiaries?
 - What if the applicant(s) had a poor credit history?
 - What if the borrower only joined the partnership 2 months ago?
 - 25 • What if the partnership was in the same industry that the applicant is a sales manager for?
 - What if the partnership lost money?
 - What were the previous residences of the applicant(s)?
 - Are any of the existing loan accounts in arrears?
 - 30 • Is the equipment being leased new or used?
 - Will the automobile being purchased be used for personal or business use?
 - Does the company applying for the lease have any other registered charges?

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- Have any previous loan accounts been in arrears?
 - What are the reasons for previous arrears?
 - Are there any outstanding judgements against the applicant(s)?
- 5 • Is any of the purchase deposit from gifted funds?
- Is the property consistent with other properties in the area?
- Was the property purchased at an auction or by private sale?
- 10 • Were any seller incentives included in the purchase price?

To complicate matters even further, different Lenders 21 have different rules concerning each of the criteria above.

- 15 It will be apparent that the number of permutations of different situations and consideration is too many to contain in a document or to be completed in a reasonable length of time by existing techniques.

- 20 It should also be noted that not all steps need to be performed sequentially and some steps do not have to be performed at all. For example, if the owner or operator of the system 23 did not wish to introduce transformations, then step 5 can be skipped

25

- Dynamic Electronic Forms

- Existing market practice for finance applications requires an applicant to complete a printed application form, or its
- 30 computerised equivalent (which in many cases simply reproduce a paper application form). As discussed above, such applications cannot capture all the required data needed to make a decision for all types of applicants.

- 35 Furthermore, existing forms create confusion for the applicant. As a simple example, he or she may be presented with a form (paper or otherwise) that has, say, one space for address details. However, some lenders require a previous address to be provided if the applicant has been

at the current address for less than 2 years. More complex examples of Dynamic Electronic Forms 8 in finance applications involve the entry of income information. As seen in the Example above, different income information
5 needs to be captured if the applicant derives his or her income from self-employment as a sole proprietor, as a partner in a partnership or as a shareholder of a company.

The system 23 couples Dynamic Electronic Forms 8 with the
10 efficient information sequencing produced by the Superset Decision Method 12 to capture the application information in a practical and, indeed, user-friendly manner. Dynamic Electronic Forms 8 are, in principle, a collection of customised sub-forms that allows for the creation of a
15 customised application based on the progressive responses of the user.

Referring to the Example, the system 23 does not present all of the requested information on one long form.
20 Instead, the Dynamic Electronic Forms 8 ultimately presents a total of 8 forms (though this number is not known initially), each form covering a logical subset of questions. The questions relating to each form is summarised in the table below, and illustrated in figures
25 2a to 2h respectively. Reference numbers in the 'Questions' column refer to these figures:

Form No.	Form Description	Questions (reference in figures 2a to 2h)
1	Captures initial low dependency data to ascertain whether the application should proceed	<ul style="list-style-type: none">• What is your desired loan amount? (24)• How many properties do you currently own? (25)• What is zoning of all properties owned? (26)• What is your name? (27)• What is your date of birth (DOB)? (28)

		<ul style="list-style-type: none"> • What is your household structure? (29) • How many dependants do you have? (30)
2	Based on response to Form No. 1, this form would present 3 sub-forms that would capture information on all three properties.	<ul style="list-style-type: none"> • What is address, zoning and value for each of the following properties? (31 to 33)
3	The inputs to this form would help to format Form No. 4	<ul style="list-style-type: none"> • How many liabilities do you have? (34) • Of these liabilities, how many are mortgages? (35)
4	From Form No. 3, the system knows to provide enough space for details of 1 mortgage and 3 other liabilities	<ul style="list-style-type: none"> • What is the balance, monthly payment and property related to each mortgage? (36) • What is balance and monthly payment of other liabilities? (37)
5	The input to this form would determine subsequent Forms Nos. 6 to 9	<ul style="list-style-type: none"> • How many sources of income do you have? (38)
6	The input to this form would determine Form No. 7	<ul style="list-style-type: none"> • What is nature of first (etc) source of income? (39, 40)
7	Based on response on Form No. 6, an appropriate PAYE wage income sub-form would be presented	<ul style="list-style-type: none"> • What is the income from first source of income? (41)
8	Based on response on Form No. 6, an appropriate partnership income sub-form would be presented	<ul style="list-style-type: none"> • How much do you receive in fixed draw? (42) • What is your share of the partnership? (43) • What is amount representing your share of partnership profits? (44)

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		• What are the total non-cash expenses of partnership? (45)
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As shown in the Example, the responses on a previous form will determine the contents of the subsequent form. This innovation has applicability to industries outside of
5 finance.

• Real-Time On-Line Assistance

An inventive feature of the system is the usage of Real-
10 Time Assistance Module 9. It is accessed by the user either through the Intermediary Control Module 6, the Direct Applicant Control Module 7, the Third Party Service Provider Module 18, or the Lender Control Module 17.

15 The system allows a user to ring an electronic bell represented by an icon on the computer screen which will alert an Assistant (generally human but possibly computerized in some simple cases) to the request for assistance. The system will have the ability for the
20 Assistant to view the same screen as the user/applicant and communicate via real-time alphanumeric messaging or, if the user has such equipment, voice communication via the existing telecommunications link with the system.

25 For example, if a Direct Applicant 5 that is applying for a loan runs into a question on a particular Dynamic Electronic Form 8, the user can select an assistance icon. This will send the current Dynamic Electronic Form 8 that the Direct Applicant 5 is viewing to an Assistant's
30 computer screen. Then a separate screen will appear that allows the Assistant to communicate with the Direct Applicant 5. As mentioned, this Real-Time Assistance Module 9 can also be accessed by any Intermediaries 2, Third Party Service Providers 18 and Lenders 21.

35 In the case of the Example, suppose the applicant has a

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question concerning Form No. 9. He is not sure whether depreciation should be included in non-cash expenses. Mr. Hall would select the "bell" icon on his screen which would activate the Real-Time Assistance Module 9. This would result in the Assistant receiving an immediate notice that assistance is requested and the identical screen that the applicant is viewing is displayed on the screen of the Assistant. Then a sub-screen would appear on the screen of the applicant and the Assistant, who when converse by typing messages to each other. Alternatively, if the applicant's computer is equipped with the voice technology, he could communicate with the Assistant via a headset.

Alternatively, all users of the system 23 may use more conventional means of communication including the telephone and written or faxed correspondence.

- Automated Underwriting for Multiple Products/Lenders

After the applicant completes the Dynamic Electronic Forms 8, the application is ready for underwriting (i.e. assessing). As mentioned above, the system 23 allows the application to be evaluated according to the credit criteria of one or more lenders.

It should be noted that Multiple Product Automated Underwriting 13 can only be conducted when a complete set of application information has been collected. The system 23 ensures that this condition is met by using Dynamic Electronic Forms 8 and the Superset Decision Method 12 as described above. Further, Multiple Product Automated Underwriting 13 can be accessed by either Intermediaries 2 or Direct Applicant 5, and the user can elect which Lenders 21 (i.e. against whose lending criteria) the application should be evaluated by. This preference would be indicated by the user while in the Intermediary Control Module 6 or the Direct Applicant Control Module 7. However, it is more advantageous for the user to elect have the application assessed against for all products and then decide which to

pursue.

As the system can incorporate an effectively unlimited number of criteria and rules for different lenders, it can perform multi-product qualification and does not have to rely on simplified credit scoring (i.e. assessing the application based on an underwriting score).

In the Example, the Multiple Product Automated Underwriting 13 calculates the necessary credit criteria for each of the Lenders 21 and check to see if the application qualifies. The Multiple Product Automated Underwriting 13 then produces the following results:

Credit Criteria	Lender A	Lender B	Lender C
Loan Amount	• Ok	• Ok	• Ok
Security	• Ok	• Ok	• Ok
Net Surplus*	-	• Ok	• Failed
Debt Service Ratio*	• Ok	-	-
Refinance Limits	• Ok	• Ok	• Ok
Identity	• Ok	• Ok	• Ok
Final Decision	• Approved	• Approved	• Rejected

The results of this simultaneous credit assessment would be immediately communicated to the applicant by means of the Direct Applicant Control Module 7, preferably electronic mail sent over the internet. At this point, Mr. Hall can choose between Lender A and Lender B or he can elect to enter the 'auction' (see Loan Exchange, described below). In this simplified Example, the applicant was not asked what his product preferences were. In practice, the applicant would indicate what product features are preferred and, as a result, it is possible that the application may be approved against products lying outside the applicant's criteria. However, in such a case, the applicant would have to abandon the application, or relax or otherwise qualify his preferences.

- Remote Application Management

An important preferred feature of the system 23 is that the application process can be managed remotely. A step-by-
5 step description of the system's functionality is described below.

The system is accessed by either an Intermediary 2 or a Direct Applicant 5 by a computer 3 or 5 over existing
10 communication links, such as the internet. The user will encounter either a Intermediary Control Module 6 or a Direct Applicant Control Module 7, according to user type. The Intermediary Control Module 6 and Direct Applicant Control Module 7 have numerous selections relevant to the
15 Intermediary 2 or Direct Applicant 5 as discussed under Open Architecture. To lodge an application, the user will select this option from the menu.

The user will then proceed to respond to the questions
20 displayed by the Dynamic Electronic Forms 8 which relies on a Superset Decision Method 12. At any time during the application process, the user may use Real-Time Assistance 9 feature of the system to contact an Assistant. Upon completing the Dynamic Electronic Forms 8 the system will
25 be able to conduct Multiple Product Automated Underwriting 13 according to the responses and preferences provided by the user. The user will then know of the credit decision and what the options are.

30 At this point, depending on the finance product and lender requirements, the user may need to do one or more of the following:

- Return signed documents. If the user needs to return
35 any signed documents, these documents can be obtained by the user in any of the following ways: electronic download of required forms, electronic file delivery or Traditional Delivery 1. As an example, the Lender will typically require that a hard copy signed application

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form is obtained from the applicant.

- Make a payment. If the user needs to then make a payment, the Finance/Payments Module 11 is accessed and the user has the ability to make a payment in one of several ways. The user can either make a payment by credit/debit card by entering the card details onto the electronic form, by making a direct deposit into a designated account, by providing written authorisation to deduct or charge an account (form can be retrieved like any other document), or by presenting payment by Traditional Delivery 1. Payments may be required to perform a valuation, for example, if the application is for mortgage finance.
- Provide other supporting documentation. If the user needs to supply other supporting documentation, this can be done by electronically delivering requested documents or Traditional Delivery 1. For more complex financial transactions such as leases, mortgage finance and commercial finance, a significant amount of supporting documentation is required by Lenders 21.
- Arrange third party services. If the user needs to arrange any third party services, this can be done electronically via either the Intermediary Control Module 6 or the Direct Applicant Control Module 7. For example, if a valuation needs to be scheduled in the case of mortgage finance, then the user can indicate preferred appointments times via an the electronic schedule that is accessed from the Intermediary Control Module 6 or Direct Applicant Control Module 7.

As discussed above, the application process for some financial products involves some third party verification. This verification is either performed by a Third Party Service Provider 18 or by the user. For example, on small balance loans (e.g. credit cards, personal loans), verification of application information with a credit information repository could be deemed sufficient by some lenders. On larger balance loans especially mortgages, the application information would need to be verified by

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multiple Third Party Service Providers 18 (e.g. land titles, valuer, CRAA) and applicant provided information (e.g., bank statements, payslips, etc.).

- 5 The Third Party Service Provider 18 can access the system and provide their services via any suitable communications link by means of computer 19 by accessing the Third Party Control Module 16. From here, the Third Party Service Provider 18 can provide the results of any services
10 performed, which will then be updated to the Database 14 which contains all the details of the application and progress thereof.

- Important preferred features of the system 23 are the
15 Intermediary Control Module 6 and the Direct Applicant Control Module 7, which allow the user/applicant to track the status of an application in real-time (rather than, as generally presently occurs, telephoning the Lender 21 who checks internal contacts to get the information needed to
20 respond to the query).

- The system 23, however, allows the user, including both Intermediary 2 and Direct Applicant 5, to view the progress of the application by selecting the track application
25 option on the respective control modules. This option then accesses the Database 14 which contains all information pertinent to the application. For example, it contains diary notes which is a notebook of all comments and actions taken by account officers.

- 30 Thus, a user can inspect what actions have been taken on a particular loan application. For example, the user can inspect a list detailing supporting documents that have and have not been received. The user can view the valuation
35 report, if one is involved. The user can see a history of any payments made in respect of the application. Of course, the user can alternatively inquire about the status of an application via the traditional means of telephone or written or faxed correspondence.

Another preferred feature of the system is that any changes or amendments to the application's file on the Database 14 may trigger desired responses. For example, when a valuation report is received from a Third Party Service Provider 18 and this report is updated to the Database 14, the system automatically sends a message to the user by electronic mail informing the user of the receipt of valuation report. This message might alternatively by Traditional Delivery 1.

Referring to the Example, the table below summarises the remaining verification tasks that must be conducted and how the applicant responses by means of the system 23:

Verification Activity	Method
Return signed application form	<ul style="list-style-type: none">• Can receive pre-filled application form in any one of following ways:<ul style="list-style-type: none">- Downloaded- Electronically delivered- Posted, faxed or sent by courier• Actual signed or faxed copy must be returned
Schedule valuation appointment	<ul style="list-style-type: none">• Select preferred valuation date and times
Make payment for valuation	<ul style="list-style-type: none">• Can make payment by any of the following means:<ul style="list-style-type: none">- On-line credit card payment- Faxed authorisation (can be downloaded or printed) to deduct/charge account- Direct deposit into nominated bank account- Can deliver cheque by post or courier

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<ul style="list-style-type: none"> • Provide tax returns for partnership • Provide payslip or group certificate • Provide latest mortgage statement • Provide latest credit card statement • Provide latest personal loan statement • Provide latest auto loan statement 	<ul style="list-style-type: none"> • Any of the following documents can be sent by: <ul style="list-style-type: none"> - Electronic image - Facsimile, courier or post
--	--

The applicant in this Example can, at any time, also access the Direct Applicant Control Module 7 to see latest developments on the application. Here he will be able to

5 view all outstanding supporting information, when payments were made, the results of any valuation report, and anticipated settlement time. Furthermore, he will be able to review any diary notes related to his account and he will automatically be informed of any changes to his

10 application file.

As the above description describes and the Example illustrates, the system 23 allows the user to remotely manage the application process. The system 23 can

15 transact, receive and send documents, send notifications and track the progress of any application for any financial product.

20 • Self-Servicing

Current practice of managing a loan account relies on human interaction. For example, if the user needs an account statement, a call or written request must be made to the lending institution. The system 23, however, enables the

25 user to remotely conduct the affairs of the loan account after funds have been disbursed by the Finance/Payments

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Module 11.

- An Intermediary 2 or Direct Applicant 5 can manage a loan account by accessing the Servicing Module 10 through the Intermediary Control Module 6 or Direct Applicant Control Module 7. The Servicing Module 7, allows the user to do any of the following electronically:
- View, print, download, receive loan account statements
 - Change payment dates;
 - 10 • Change payment amounts;
 - Change nominated account information;
 - Amend contact information;
 - Determine pay-out figures;
 - Request additional advances; or
 - 15 • Inquire about anything related to the loan account.

The user can also contact an Assistant by the more conventional means of telephone or written or faxed correspondence. However, this feature is both convenient and lowers the cost of servicing the applicant.

- Intermediary System

Owing to the open architecture of the system 23, it can also be accessed by finance brokers, financial planners and accountants. For customers that seek such services, these Intermediaries 2 will be able to lodge applications on their behalf.

- 30 The broker community plays a role in over 10% of all finance applications. The system 23 also provides an array of features to this industry including:
- Salesforce management tools;
 - Productivity projections and budgets;
 - 35 • Information on all applications in progress;
 - Information on all introduced customers;
 - Performance statistics on introduced business.

Such features can be amended and augmented as required.

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Such features would be accessed through the Intermediary Control Module 6 which would extract and manipulate the necessary information from the Database 14.

5 • Loan Exchange

The system 23 also operates as an auction for loans. For such an auction to work, a minimum reasonable level of participants must exist. Therefore, assuming that the
10 system has the requisite number of participants to have a robust auction, the system 23 has can properly and orderly conduct auctions.

The Auction Control Module 15 regulates the auction system.
15 Users that have elected to auction their loan will have their preferences gathered, if any, and sorted into various categories. For example, some user may only want to consider credit cards with a reward program. Therefore, this preference may reduce the number of participating
20 Lenders 21.

Lenders 21 can access the Auction Control Module 15 through the Lender Control Module 17. Lenders 21 will be able to sort available loans to bid on by any criteria they wish.
25 As the invention utilises the Superset Decision Method 12, all information relevant to them can be retrieved from the Database 14 and displayed.

Referring to the Example, the applicant was approved for a
30 mortgage with Lender A and Lender B. If the applicant wishes, he can elect to have his business go to the lowest bidder. Prior to this auction, the applicant's application, along with the applications of other users, are viewed by participating Lenders 21. The Lenders 21
35 would be able to review any credit criteria of the application. For example, Lenders 21 will be able to sort by Net Surplus if desired.

At regular intervals, the Auction Control Module 15 will

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begin to take various bids submitted by the participating Lenders 21 for applications. The Auction Control Module 15 will be capable of managing various auction styles depending on the most appropriate situation (e.g., Dutch, Blind, Best Bid). At the auction deadline, the Lender 21 that has offered the lowest interest rate (or other measure to be determined) will win the application.

If the applicant were offered a rate of 6.25% by Lender A and 6.15% by Lender B, he would presumably then proceed with Lender B. Alternatively, prior to the auction, the applicant may have specified a number of conditions which would be captured by the Database 14 and managed by the Auction Control Module 15. For example, he may have set a reserve rate of 6.00%. If this is the case, then the loan would not go to any of the bidding Lenders 21. Such a strategy might be used by the applicant if he does not require finance urgently.

In an alternative example of use of the Auction Control Module 15, the applicant may be considering obtaining a mortgage on a warehouse. He may therefore want to package his finance together as one offer to a Lender 21. This condition will be recognised by the Auction Control Module 15 and communicated to bidding Lenders 21.

- Lender Access

The invention can also be accessed by Lenders 21 through the Lender Control Module 17. Here, Lenders 21 will have the ability to perform numerous tasks including but not limited to: changing credit criteria, viewing all funded application, reviewing previous auction results, projected number of new customers, product split, its share of total business, etc. New features and enhancements can be added based on Lender requirements and feedback.

Thus, the system 23 allows any Direct Applicant 5 or Intermediary 2 to remotely access a system that employs a

method that can simultaneously and automatically underwrite an application for several loan products offered by several lenders. The system 23 also allows the user to remotely track and action the application process and, if and when
5 the applicant becomes a customer, enables the user to remotely manage the loan account. In addition, the system 23 can auction loan applications to the Lender 21 with the best bid. The system also provides numerous value-added services to Lenders 21 and other Third Party Service
10 Providers 18.

Modifications within the spirit and scope of the invention may readily be affected by persons skilled in the art. It is to be understood, therefore, that this invention is not
15 limited to the particular embodiments described by way of example hereinabove.

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THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. An apparatus for receiving and assessing an application made by an applicant, said apparatus including:

5 computing means configured or programmed to present a plurality of application forms to said applicant, to receive said forms once completed from said applicant and to assess said application;

10 input means for said applicant to complete and return said forms to said computing means; and

 communication means for communicating or sending said assessment of said application to said applicant;

15 wherein said computing means is configured or programmed to construct second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant by means of said input means in said completed and received forms, to assess said application, and to communicate said assessment by means of said communication means.

20 2. An apparatus as claimed in claim 1, wherein said assessment may indicate approval or rejection of said application, or that further information or human involvement is required before the application can be approved or rejected.

30 3. An apparatus as claimed in claim 1, wherein said plurality of forms is one of a plurality of groups of pluralities of forms.

 4. An apparatus as claimed in claim 1, wherein said computing means is configured or programmed to assess said application according to information received in any one or more of said forms.

35 5. An apparatus as claimed in claim 1, wherein said apparatus includes a display means for presenting said forms.

40 6. An apparatus as claimed in claim 1, wherein said

computing means is operable to present said forms on a remote display means.

5 7. An apparatus as claimed in claim 6, wherein said remote display means is a computer connected to said apparatus by means of a computer network.

10 8. An apparatus as claimed in claim 7, wherein said computer network is the internet, the world wide web, a commercial on-line service, an interactive broadcast, or other electronic on-line means.

15 9. An apparatus as claimed in claim 1, wherein said input means is any suitable computer or computer input means, or a computer keyboard, computer mouse or electronic pen connected to said computing means.

20 10. An apparatus as claimed in claim 1, wherein said input means is connected to said apparatus by means of a computer network.

25 11. An apparatus as claimed in claim 1, wherein said communication means is an electronic information transfer system.

30 12. An apparatus as claimed in claim 1, wherein said apparatus includes communication link means for obtaining additional information, from external databases or other sources of information, for consideration in assessing said application.

35 13. An apparatus as claimed in claim 1, wherein said apparatus is configured or programmed to present one or more additional forms when information previously returned by said applicant contains one or more defects.

40 14. An apparatus as claimed in claim 13, wherein said apparatus is configured or programmed to ignore certain of said defects on the basis of preset tolerances for decision certainty, and/or not to request certain information deemed

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non-critical in some or all circumstances.

15. An apparatus as claimed in claim 1, wherein said
apparatus is operable by said applicant to amend
5 information previously returned by said applicant.

16. An apparatus as claimed in claim 1, wherein said
apparatus includes or can access application approval
criteria of a plurality of application recipients, is
10 configured or programmed to present sufficient of said
forms to assess said application according to approval
criteria of said each of said plurality of application
recipients, and is configured or programmed to assess said
application against the approval criteria of each of said
15 recipients, and thereby form a respective separate
assessment for each of said plurality of application
recipients.

17. An apparatus as claimed in claim 16, wherein said
20 apparatus is programmed or configured to assess said
application according to multiple separate approval
criteria for each of said one or more application
recipients.

18. An apparatus as claimed in claim 16, wherein said
25 apparatus is configured or programmed to communicate one or
more of said assessments to one or more of said application
recipients.

19. An apparatus as claimed in claim 16, wherein said
30 apparatus is operable by each of said application
recipients to adjust said respective approval criteria of
each recipient in order to bid for selection by said
applicant.

20. An apparatus as claimed in claim 1, wherein, if said
35 application is approved, said apparatus is operable by said
applicant to adjust or request the adjustment of one or
more parameters of said application.

40

21. An apparatus as claimed in claim 1, wherein said apparatus is operable by said applicant to display or transmit to said applicant some or all of said information and/or the status of said application.

22. An apparatus as claimed in claim 1, wherein said apparatus includes means for requesting assistance, or is operable to request assistance, and is operable to communicate details of said application to an assistant so that said assistant can advise said applicant.

23. An apparatus as claimed in claim 22, wherein said assistant can view one or more of said forms during completion by said applicant.

24. A method for receiving and assessing an application made by an applicant to one or more recipients, including: presenting a plurality of application forms to said applicant;

receiving said forms once completed from said applicant;

assessing said application; and communicating or sending said assessment of said application to said applicant;

wherein said method includes constructing second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant in said completed and received forms.

25. A method as claimed in claim 24, wherein said method includes collecting application approval criteria for said one or more recipients, determining the dependency if any of each of said criteria on each other, promoting in said sequence forms requesting information whose content renders a high, or the greatest possible, number of later questions redundant, and omitting said redundant questions from subsequent forms.

26. A method as claimed in claim 24, wherein said method includes presenting, in earlier forms, any questions where

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the response to each of said questions case may lead to the immediate rejection of the application.

27. A method as claimed in claim 26, wherein said method
5 includes subsequently adjusting said sequence.

28. An apparatus for receiving and assessing an application made by an applicant, said apparatus including:
computing means configured or programmed to receive
10 application information and to assess said application;
wherein said apparatus includes, or can access, application approval criteria of a plurality of application recipients, and said computing means is configured or
programmed to assess said application according to said
15 approval criteria of said each of said plurality of application recipients, whereby said apparatus can thereby form a respective separate assessment for each of said plurality of recipients.

29. An apparatus as claimed in claim 28, wherein said apparatus is operable to present a number of questions or a number of sets of questions in sequence to said applicant and to receive responses to said questions from said applicant, wherein said application information constitutes
25 or is determined from said responses, and said apparatus is configured or programmed to optimise said sequence to reduce or minimize said number of questions or sets of questions.

30. An apparatus as claimed in claim 28, wherein said apparatus includes:
input means for said applicant to input said application to said computing means; and
communication means for communicating or sending said
35 assessments of said application to said applicant.

31. An apparatus as claimed in claim 28, wherein said computing means is configured or programmed to present a plurality of application forms to said applicant, and to

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receive said forms once completed from said applicant and to assess said application;

wherein said computing means is configured or programmed to construct second and subsequent forms of said plurality of forms progressively on the basis of information provided by said applicant by means of said input means in said completed and received forms, and to communicate said assessments by means of said communication means.

10

32. A method for receiving and assessing an application made by an applicant, including:

receiving application information from said applicant;
assessing said application according to approval
15 criteria of each of a plurality of application recipients;
and

forming a respective separate assessment for each of said plurality of recipients.

20 33. A method as claimed in claim 32, including:

presenting a number of questions or a number of sets of questions in sequence to said applicant;
receiving responses to said questions from said applicant, wherein said application information constitutes
25 or is determined from said responses; and
optimising said sequence to reduce or minimize said number of questions or sets of questions.

34. A method as claimed in claim 32, wherein said method
30 includes communicating or sending said assessments of said application to said applicant.

35. A method of processing an application made by an applicant, including:

35 receiving application information from said applicant;
providing said information to a plurality of application recipients;
receiving one or more bids for said application from one or more of said recipients;

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forwarding said one or more bids to said applicant for selection or rejection of each of said one or more bids.

5 36. A method as claimed in claim 35, wherein said method includes forming a respective separate assessment of said application for each of said plurality of recipients.

10 37. A method as claimed in claim 35, wherein said method includes adjusting said respective bids according to said selection or rejections of adjustment of said information.

38. An apparatus for processing an application made by an applicant, said apparatus including:

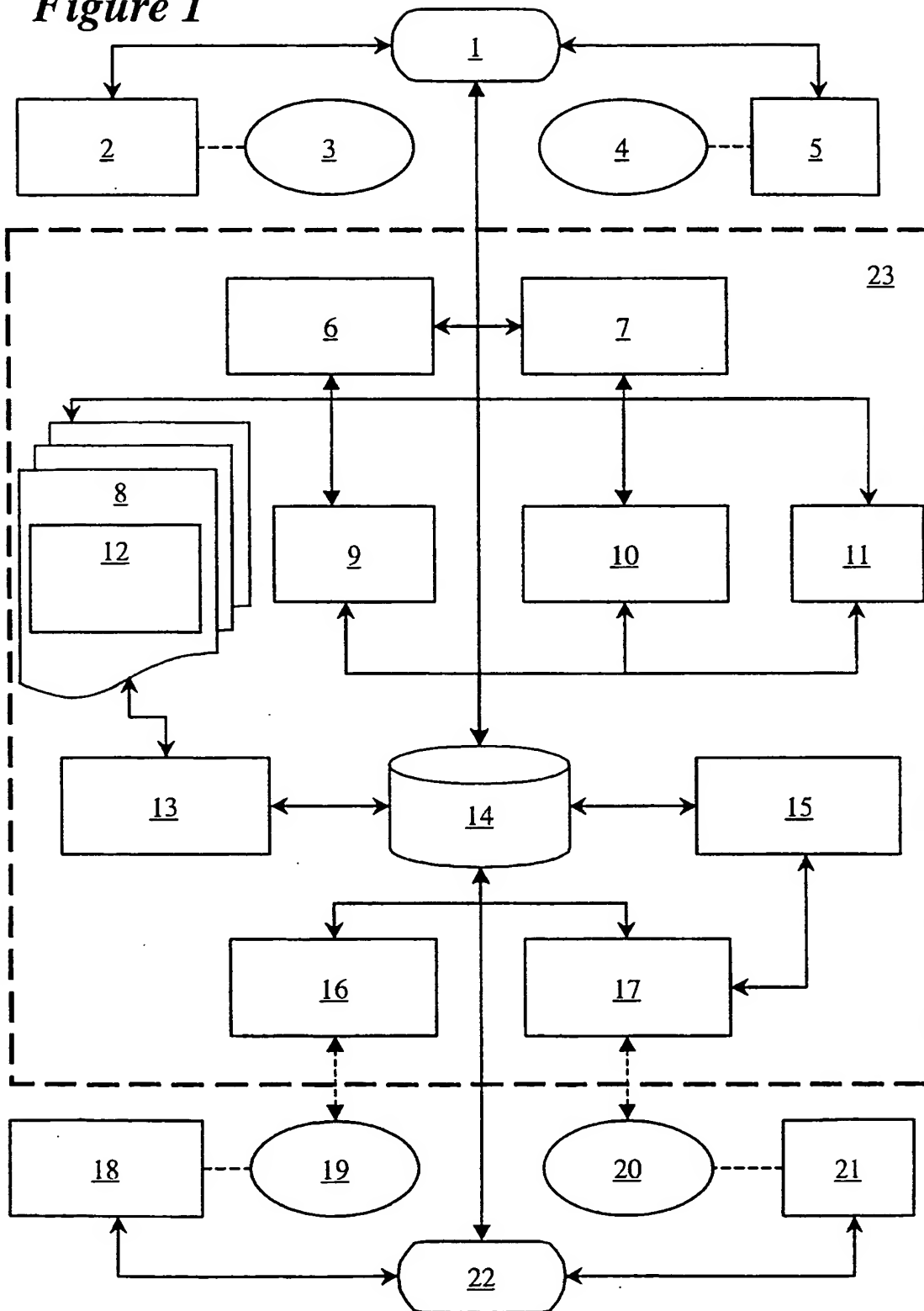
15 computing means configured or programmed to receive application information from said applicant, for directing said information to a plurality of application recipients, for receiving one or more bids for said application from one or more of said recipients, and for forwarding said one or more bids to said applicant for selection or rejection
20 of each of said one or more bids.

39. A computer program product or directly loadable into the internal memory of a computer, comprising software code portions for performing the steps of a method as claimed in
25 any one of claims 24 to 27 or 32 to 37 when said product is run on a computer.

40. A computer program product stored on a computer usable medium, comprising: computer readable program means for
30 causing a computer to performing the steps of a method as claimed in any one of claims 24 to 27 or 32 to 37.

41. A computer readable medium, having a program recorded thereon, wherein said program is for making a computer
35 execute a method as claimed in any one of claims 24 to 27 or 32 to 37.

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Figure 1

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Figure 2a**Form 1 - Application Profile****Application Details****Applicant 1****What Is Your Desired
Loan Amount?****(24)****How Many Properties Do
You Currently Own?****(25)****What zoning of all
properties owned?**
(please select all that apply)☐ Residential ☐ Rural Residential
☐ Rural ☐ Crown Lease
☐ Industrial ☐ Other**(26)****What is Your Name?****(27)****What is Your Date of Birth?****(28)**

DD/MM/YY

**What is your Household
Structure?****(29)****How Many Dependents Do
You Have?****(30)**

Form 2 - Property Details

Address Details

Address of Property #1

Zoning of Property #1

Value of Property #1

Address of Property #2

Zoning of Property #2

Value of Property #2

Address of Property #3

Zoning of Property #3

Value of Property #3

31

32

33

Figure 2b

Form 3 - Liabilities Overview	
Liability Details	Applicant 1
How Many Liabilities Do You Have?	<div>34</div>
How Many of These Liabilities are Mortgages?	<div>35</div>

Figure 2c

Form 4 - Liability Details			
— Liability Details			
What is Balance of Mortgage #1	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="text-align: center; margin-bottom: 10px;"> 36 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> </div> <div style="width: 50%;"> <div style="margin-bottom: 5px;"><input type="checkbox"/> Property #1</div> <div style="margin-bottom: 5px;"><input type="checkbox"/> Property #2</div> <div style="margin-bottom: 5px;"><input type="checkbox"/> Property #3</div> </div> </div>	
What is Monthly Payment of Mortgage #1	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Which Properties Secure This Mortgage? (Please select all that apply)			
Other Liability #1			
Other Liability #2			
Other Liability #3			

Figure 2d

Form 5 - Income Overview

— Sources of Income

How Many Sources of Income Do You Have?

(38)

Figure 2e

Form 6 - Income Nature

— Nature of Income

What Is Nature of First Source of Income?

(39)

What Is Nature of Second Source of Income?

(40)

Figure 2f

Form 7 - First Source of Income

Figure 2g

— Full-Time Wages

What Income Do You Earn From
This Full-Time Job?

(41)

Form 8 - Second Source of Income

Figure 2h

— Partnership Income

What Fixed Draw Do You Receive
From This Partnership?

(42)

What is Your Share of the
Partnership?

(43)

What Amount Represents Your
Share of Partnership Profits?

(44)

What are the Total Non-Cash
Expenses of the Partnership?

(45)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/00278

A. CLASSIFICATION OF SUBJECT MATTER												
Int. Cl. ⁷ : G06F 17/60, H04L 12/16												
According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols) IPC : G06F 17/60, H04L 12/16												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU : IPC AS ABOVE												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, USPTO Web Patent Database, Esp@cenet												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
P, X	AU, A, 38925/99 (LEBDA et al.) 29 November 1999. Whole document. See also page 2 line 19 to page 3 line 4..	28-30, 32-41										
X	AU, A, 61820/98 (ELECTRONIC DATA SYSTEMS CORPORATION) 22 September 1998. Whole document. See also page 13 lines 11 to 24.	28-30, 32-41										
X	AU, A, 44095/97 (WALKER ASSET MANAGEMENT, LIMITED PARTNERSHIP) 26 March 1998. Whole document.	28-30, 32-41										
X	US, A, 5878403 (DEFRANCESCO et al.) 2 March 1999. Whole document. See the claims in particular.	28-30, 32-41										
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" Document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" Earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" Document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" Document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" Document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" Document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" Earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" Document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" Document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" Document published prior to the international filing date but later than the priority date claimed	
"A" Document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" Earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" Document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" Document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" Document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 18 April 2000		Date of mailing of the international search report - 9 MAY 2000										
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer P. THONG Telephone No : (02) 6283 2128										

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/00278

Box 1 Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos :
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos :
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

- 1) Claims 1 to 27. Progressive application form construction.
 - 2) Claims 28 to 34. Assessment of application against a plurality of recipient's criteria.
 - 3) Claims 35 to 41. Distribution of applications and evaluation of bids.
1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
 2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/AU00/00278

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
AU	38925/99	WO	99/59084				
AU	61820/98	WO	98/39716				
AU	44095/97	WO	98/10558	EP	923825	US	5884270
END OF ANNEX							